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## RAW SEQUENCE LISTING

DATE: 12/06/2001

PATENT APPLICATION: US/09/910,483

TIME: 10:32:48

Input Set : A:\14358772.app

Output Set: N:\CRF3\12062001\I910483.raw

3 <110> APPLICANT: FANG, FANG  
 4 KOHLSTAEDT, LORI  
 5 RENO, JOHN  
 7 <120> TITLE OF INVENTION: HUMANIZED ANTIBODIES  
 9 <130> FILE REFERENCE: 014357/027 8772  
 11 <140> CURRENT APPLICATION NUMBER: 09/910,483  
 12 <141> CURRENT FILING DATE: 2001-07-19  
 14 <160> NUMBER OF SEQ ID NOS: 96  
 16 <170> SOFTWARE: PatentIn Ver. 2.1  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 116  
 20 <212> TYPE: PRT  
 21 <213> ORGANISM: Artificial Sequence  
 23 <220> FEATURE:  
 24 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain  
 25 peptide of Hum A

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27 <400> SEQUENCE: 1  
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 29 1 5 10 15  
 31 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr  
 32 20 25 30  
 34 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 35 35 40 45  
 37 Ala Arg Ile Asp Pro Ala Asn Asp Asn Thr Ile Tyr Ala Asp Ser Val  
 38 50 55 60  
 40 Lys Gly Arg Phe Thr Ile Ser Ser Asp Asp Ser Lys Asn Thr Ala Tyr  
 41 65 70 75 80  
 43 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 44 85 90 95  
 46 Thr Asp Ser Gly Tyr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val  
 47 100 105 110  
 49 Thr Val Ser Ser  
 50 115

53 <210> SEQ ID NO: 2  
 54 <211> LENGTH: 348  
 55 <212> TYPE: DNA  
 56 <213> ORGANISM: Artificial Sequence  
 58 <220> FEATURE:  
 59 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH nucleotide  
 60 sequence of Hum A  
 62 <400> SEQUENCE: 2  
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 64 tcttgccgag caagcggttt caacattaag gacacctaca tccattgggt gaggcaagct 120  
 65 ccgggtaagg gtctggagtg ggtggcacgt atcgaccggg caaacgacaa caccatttac 180  
 66 gctgacagcg tgaagggccg ttttactatt tctagcgacg actctaagaa caccgcgtac 240  
 67 cttcagatga actctctgcg tgccgaggac accgccgtct actactgcac ggactctggc 300  
 68 tactggtttg cctactgggg ccagggcacg cttgtcaccg tctcttct 348

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77 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL Domain
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82   1             5             10             15
84 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn
85             20             25             30
87 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
88             35             40             45
90 Tyr His Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
91             50             55             60
93 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
94             65             70             75             80
96 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr
97             85             90             95
99 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
100             100             105
103 <210> SEQ ID NO: 4
104 <211> LENGTH: 324
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL nucleotide
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112 <400> SEQUENCE: 4
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114 attacttgcc gcgccagcca atctatcagt aataatcttc actggtatca acaaaaaccg 120
115 ggtaaagctc cgaaacttct tatctatcac gcctctcaga gcattagcgg cgttccgagc 180
116 cgcttctctg gctctggctc gggcacggac tttaccotta ccatcagctc tcttcagccg 240
117 gaagactttg ccacctatta ttgtcagcag tctaatagct ggccgtatac cttcgggtcaa 300
118 ggtaccaagg tcgagattaa gcgc                                     324
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122 <211> LENGTH: 116
123 <212> TYPE: PRT
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain
128     peptide of Hum B
130 <400> SEQUENCE: 5
131 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
132   1             5             10             15
134 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr
135             20             25             30
137 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val

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138          35          40          45
140 Ala Arg Ile Asp Pro Ala Asn Asp Asn Thr Ile Tyr Ala Asp Ser Val
141          50          55          60
143 Lys Gly Arg Phe Thr Ile Ser Ser Asp Asp Ser Lys Asn Thr Ala Tyr
144 65          70          75          80
146 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
147          85          90          95
149 Thr Ala Ser Gly Tyr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
150          100          105          110
152 Thr Val Ser Ser
153          115
156 <210> SEQ ID NO: 6
157 <211> LENGTH: 348
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159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH nucleotide
163 sequence of Hum B
165 <400> SEQUENCE: 6
166 gaagttcaac ttgttgagtc tgggtggcggc ctggttcagc cgggtgggctc tctgcgccctg 60
167 tctgcgccag caagcgggtt caacattaag gacacctaca tccattgggt gaggcaagct 120
168 ccgggtaagg gtctggagtg ggtggcacgt atcgaccggg caaacgacaa caccatttac 180
169 gctgacagcg tgaagggccg ttttactatt tctagcgacg actctaagaa caccgcgtac 240
170 cttcagatga actctctgcg tgccgaggac accgccgtct actactgcac ggcctctggc 300
171 tactggtttg cctactgggg ccagggcacg cttgtcaccg tctcttct 348
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175 <211> LENGTH: 108
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL Domain
181 peptide of Hum B
183 <400> SEQUENCE: 7
184 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
185 1          5          10          15
187 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn
188          20          25          30
190 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
191          35          40          45
193 Tyr His Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
194          50          55          60
196 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
197 65          70          75          80
199 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr
200          85          90          95
202 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
203          100          105
206 <210> SEQ ID NO: 8
207 <211> LENGTH: 324

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208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL nucleotide
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215 <400> SEQUENCE: 8
216 gatatccaga tgacccaatc tccgtctagc ctgagcgcca gtgttggtga tcgagttacc 60
217 attacttgcc gcgccagcca atctatcagt aataatcttc actggtatca acaaaaaccg 120
218 ggtaaagctc cgaaacttct tatctatcac gcctctcaga gcattagcgg cgttccgagc 180
219 cgcttctctg gctctggctc gggcacggac tttaccotta ccatcagctc tcttcagccg 240
220 gaagactttg ccacctatta ttgtcagcag tctaatagct ggccgtatac cttcggtcaa 300
221 ggtaccaagg tcgagattaa gcgc                                     324
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225 <211> LENGTH: 116
226 <212> TYPE: PRT
227 <213> ORGANISM: Artificial Sequence
229 <220> FEATURE:
230 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain
231     peptide of Hum C
233 <400> SEQUENCE: 9
234 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
235   1           5           10           15
237 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr
238           20           25           30
240 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
241           35           40           45
243 Ala Arg Ile Asp Pro Ala Asn Asp Asn Thr Ile Tyr Ala Asp Ser Val
244           50           55           60
246 Lys Gly Arg Phe Thr Ile Ser Gly Asp Asp Ser Lys Asn Thr Ala Tyr
247   65           70           75           80
249 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
250           85           90           95
252 Thr Thr Ser Gly Tyr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val
253           100          105          110
255 Thr Val Ser Ser
256           115
259 <210> SEQ ID NO: 10
260 <211> LENGTH: 348
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH nucleotide
266     sequence of Hum C
268 <400> SEQUENCE: 10
269 gaagttcaac ttgttgagtc tgggtggcggc ctggttcagc cgggtggctc tctgcgcctg 60
270 tcttgccgag caagcgggtt caacattaag gacacctaca tccattgggt gaggcaagct 120
271 ccgggtaagg gtctggagtg ggtggcacgt atcgaccggg caaacgacaa caccatttac 180
272 gctgacagcg tgaagggcg tttactatt tctggcgacg actctaagaa caccgcgtac 240
273 cttcagatga actctctgcg tgccgaggac accgccgtct actactgcac gacctctggc 300

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283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL Domain
284     peptide of Hum C
286 <400> SEQUENCE: 11
287 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
288   1             5             10             15
290 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn
291             20             25             30
293 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
294             35             40             45
296 Tyr His Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly
297             50             55             60
299 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
300   65             70             75             80
302 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr
303             85             90             95
305 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg
306             100            105
309 <210> SEQ ID NO: 12
310 <211> LENGTH: 324
311 <212> TYPE: DNA
312 <213> ORGANISM: Artificial Sequence
314 <220> FEATURE:
315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL nucleotide
316     sequence of Hum C
318 <400> SEQUENCE: 12
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320 attacttgcc gcgccagcca atctatcagt aataatcttc actggtatca acaaaaaccg 120
321 ggtaaagctc cgaaacttct tatctatcac gcctctcaga gcattagcgg cgttccgagc 180
322 cgcttctctg gctctggctc gggcacggac tttaccctta ccatcagctc tcttcagccg 240
323 gaagactttg ccacctatta ttgtcagcag tctaatagct ggccgtatac cttcgggtcaa 300
324 ggtaccaagg tcgagattaa gcgc                      324
327 <210> SEQ ID NO: 13
328 <211> LENGTH: 116
329 <212> TYPE: PRT
330 <213> ORGANISM: Artificial Sequence
332 <220> FEATURE:
333 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain
334     peptide of Hum D
336 <400> SEQUENCE: 13
337 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
338   1             5             10             15
340 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr
341             20             25             30

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**VERIFICATION SUMMARY**

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